What is claimed is:

1. A process for separation/recovery of platinum group metals (PGM) from a chloride solution containing the PGM and an impurity element, comprising a first step of selectively adsorbing the PGM by bringing a polyamine-based anion exchange resin into contact with the solution to form adsorption-treated resin, a second step of washing the adsorption-treated resin to form washing-treated resin, and third step of eluting the PGM from the washing-treated resin to form an effluent.

2. The process according to Claim 1 for separation/recovery of PGM, further comprising the step of keeping the chloride solution at an oxidation-reduction potential of 700 to 1100mV (based on an Ag/AgCl electrode).

3. The process according to Claim 1 for separation/recovery of PGM, wherein said washing step comprises the steps of washing the adsorption-treated resin with a diluted hydrochloric acid solution or water, or with diluted hydrochloric acid solution and then water.

4. The process according to Claim 3 for separation/recovery of PGM, wherein the diluted hydrochloric acid solution has a chloride ion concentration of below 4 mol/L in said second step.

5. The process according to Claim 1 for separation/recovery of PGM, wherein said elution step comprises the step of bringing the washing-treated resin into contact with an aqueous solution of thiourea or hydrochloric acid solution, or with aqueous solution of thiourea and then hydrochloric acid solution successively.

6. The process according to Claim 5 for separation/recovery of PGM, wherein the hydrochloric acid solution has a chloride ion concentration of 4 mol/L or more.

7. The process according to Claim 5 for separation/recovery of PGM, wherein said eluting step is carried out at 60 to 90°C .

8. The process according to Claim 1 for separation/recovery of PGM, wherein said eluting step, when carried out in the presence of an aqueous solution of thiourea, is followed by a step in which the elution effluent is made alkaline and then heated to recover the PGM in the form of sulfide.

9. The process according to Claim 1 for separation/recovery of PGM, wherein the PGM is at least one element selected from the group consisting of platinum, palladium, iridium, rhodium, ruthenium and osmium.

10. The process according to Claim 2, wherein the PGM is at least one element selected from the group consisting of platinum, palladium, iridium, rhodium, ruthenium and osmium.

11. The process according to Claim 3, wherein the PGM is at least one element selected from the group consisting of platinum, palladium, iridium, rhodium, ruthenium and osmium.

12. The process according to Claim 4, wherein the PGM is at least one element selected from the group consisting of platinum, palladium, iridium, rhodium, ruthenium and osmium.

13. The process according to Claim 5, wherein the PGM is at least one element selected from the group consisting of platinum, palladium, iridium, rhodium, ruthenium and osmium.

14. The process according to Claim 6, wherein the PGM is at least one element selected from the group consisting of platinum, palladium, iridium, rhodium, ruthenium and osmium.

15. The process according to Claim 7, wherein the PGM is at least one element selected from the group consisting of platinum, palladium, iridium, rhodium, ruthenium and osmium.

16. The process according to Claim 8, wherein the PGM is at least one element selected from the group consisting of platinum, palladium, iridium, rhodium, ruthenium and osmium.